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*John*

# Water Supply Outlook For Nevada



SOIL CONSERVATION SERVICE  
U.S. DEPARTMENT OF AGRICULTURE

Cooperating with

NEVADA DEPARTMENT OF CONSERVATION  
AND NATURAL RESOURCES

AS OF  
March 1, 1984

## TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefor subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

## COVER PHOTO: SPRING IS ON THE WAY.

Published by Soil Conservation Service

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland Oregon 97209.

Copies of state and local reports may also be obtained from the state offices of the Soil Conservation Service in the following states:

| STATE              | ADDRESS  |
|--------------------|--|
| Alaska             | Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504     |
| Arizona            | Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025 |
| Colorado (N. Mex.) | 2490 W. 26th Avenue, Denver, Colorado 80217                            |
| Idaho              | Room 345, 304 N. 8th St., Boise, Idaho 83702                           |
| Montana            | 32 E. Babcock, Bozeman, Montana 59715                                  |
| Nevada             | P.O. Box 4850, Reno Nevada 89505                                       |
| Oregon             | 1220 S. W. Third Ave., Portland, Oregon 97204                          |
| Utah               | 4420 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138    |
| Washington         | 360 U.S. Court House, Spokane, Washington 99201                        |
| Wyoming            | 100 E. "B" St., Casper, Wyoming 82601                                  |

### PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 -- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.





# **Water Supply Outlook For Nevada**

**AND  
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS**



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All Averages are for 1961-1980 Period.





# WATER SUPPLY OUTLOOK FOR NEVADA

## SNOWPACK MEASUREMENTS

Nevada March first snowpack conditions vary greatly throughout the state. Eastern and northern Nevada snow course totals exceed two hundred percent of average, while the southern part is less than sixty percent. The western course measurements range between 110 and 120 percent of average.

The Upper Humboldt River Basin is currently 290 percent of the March first average. Many courses exceed all time March first records. For example, Green Mountain is seven inches above the previous maximum established in 1936, while Lamoille #1 is half an inch above the 1952 reading.

Lower Humboldt River snow courses are also breaking records with the Basin 251 percent of average. Golconda #2 is 5.8 inches above the previous high recorded in 1969.

The Lower Colorado River is the only basin in Nevada below average. The overall basin average is 57 percent of the twenty year figure. The Lee Canyon #2 snow course is 18.2 inches below the record established in 1969.

Eastern Nevada snow courses are 181 percent of average. Snow water equivalent at Robinson Summit is 4.0 inches compared to 2.7 inches in 1983 and a two inch average. Ward Mountain #2, with a twenty year average of 6.4 inches, has 11.1 inches of snow water.

The Tahoe, Truckee, Carson, and Walker Basins are all at 120 percent of average. Generally, the lower Tahoe-Truckee courses are below average while the higher elevation courses continue the above average trend established in December.

## RESERVOIR STORAGE

The surface elevation of Pyramid Lake continued to rise during February with an increase of 1.33 feet. The total rise since October 1, 1983 has been 5.53 feet.

Total reservoir storage in the seven monitored reservoirs is slightly above average, but is below the storage recorded on March 1, 1983. All reservoirs have had the storage levels adjusted to accommodate estimated spring run-off flows.

## STREAMFLOW FORECASTS

All streamflow forecasts have been adjusted since the February first water supply forecast was prepared. All estimates on the Carson, Walker, and Truckee Rivers show reductions while all points on the Humboldt River have increased. These adjustments were required because of varying precipitation conditions throughout the state

The forecast flows on the Truckee, Carson, and Walker Rivers are between 8 and 20 percent below the February first estimates. The Truckee River at Farad, for the period April through July, will produce 320,000 acre feet, which is 119 percent of average. The Little Truckee River above Boca is forecasted at 115,000 acre feet.

The Carson River at Carson City is projected at 210,000 acre feet while at Fort Churchill the flow will be 200,000 acre feet. These values are 15 to 18 percent below the February estimates, but still 115 and 120 percent of average, respectively.

Humboldt River forecast points are all above two hundred percent of average. The river at Palisades is forecasted at 650,000 acre feet which is 283 percent of average. The Comus forecast point is expected to record 510,000 acre feet or 295 percent of average.

Kingston Creek near Austin should generate 8,200 acre feet while the Franklin River near Arthur is expected to produce 12,000 acre feet. The estimated values are 249 and 208 percent of average, respectively.

**STREAMFLOW FORECASTS (Thousand Acre Feet) as of: March 1, 1984**

| FORECAST POINT                                 | Forecast Period | Forecast This Year | This Year as Percent of Average | Average † |
|--|-----------------|--------------------|---------------------------------|-----------|
| <u>TRUCKEE RIVER</u>                           |                 |                    |                                 |           |
| Galena Creek near Steamboat, NV                | Apr-July        | 5.1                | 117                             | 4.4       |
| Little Truckee River above Boca, CA            | Apr-July        | 124                | 124                             | 92        |
| Truckee River at Farad, CA 1/                  | Apr-July        | 320                | 119                             | 269       |
| Lake Tahoe Rise in ft. (assuming gates closed) | April 1 high    | 1.7                | 122                             | 1.39      |
| Sage Hen Creek, CA                             | Apr-July        | 7.2                | 111                             | 6.5       |
| Steamboat Creek at Steamboat, NV               | Apr-July        | 6.1                | 177                             | 5.2       |
| <u>CARSON RIVER</u>                            |                 |                    |                                 |           |
| East Carson near Gardnerville, NV              | Apr-July        | 218                | 117                             | 187       |
| West Carson at Woodfords, CA                   | Apr-July        | 62                 | 117                             | 53        |
| Carson River near Carson City, NV              | Apr-July        | 210                | 115                             | 182       |
| Carson River near Ft. Churchill, NV            | Apr-July        | 200                | 120                             | 166       |
| <u>WALKER RIVER</u>                            |                 |                    |                                 |           |
| East Walker near Bridgeport, CA 2/             | Apr-Aug         | 80                 | 120                             | 66        |
| W. Walker below L. Walker near Coleville, CA   | Apr-July        | 180                | 122                             | 148       |
| <u>SNAKE RIVER</u>                             |                 |                    |                                 |           |
| Owyhee River near Owyhee, NV 3/                | Apr-July        | 186                | 218                             | 85        |
| Owyhee River near Gold Creek, NV 3/            | Apr-July        | 50                 | 185                             | 32        |
| South Fork Owyhee R. near White Rock, NV       | May-July        | 183                | 220                             | 83        |
| Salmon Falls Creek near San Jacinto, NV        | Mar-Sept        | 160                | 170                             | 94        |
| <u>HUMBOLDT RIVER</u>                          |                 |                    |                                 |           |
| Lamoille Creek near Lamoille, NV               | Apr-July        | 50                 | 174                             | 28        |
| S. Fork Humboldt Above Dixie Creek, NV         | Apr-July        | 166                | 221                             | 75        |
| Marys River above Hot Springs, NV              | Apr-July        | 75                 | 203                             | 37        |
| North Fork Humboldt at Devils Gate, NV         | Apr-July        | 83                 | 239                             | 35        |
| Humboldt River at Palisade, NV                 | Apr-July        | 650                | 283                             | 230       |
| Humboldt River at Comus, NV                    | Apr-July        | 510                | 295                             | 173       |
| Kingston Creek near Austin, NV                 | Apr-July        | 8.2                | 249                             | 3.3       |
| L. Humboldt R. near Paradise, Valley, NV       | Apr-July        | 24                 | 250                             | 9.7       |
| Martin Creek near Paradise, NV                 | Apr-July        | 35                 | 222                             | 16        |
| Reese River near Ione, NV                      | Apr-July        | 13                 | 297                             | 6.6       |
| Rock Creek near Battle Mtn., NV                | Mar-July        | 35                 | 220                             | 16        |
| <u>NORTHERN GREAT BASIN</u>                    |                 |                    |                                 |           |
| Bidwell Creek near Ft. Bidwell, CA             | Apr-July        | 17.2               | 143                             | 12        |
| Mill Creek near Cedarville, CA                 | Apr-July        | 6.0                | 146                             | 4.1       |
| Deep Creek near Cedarville, CA                 | Apr-July        | 5.0                | 139                             | 3.6       |
| Eagle Creek near Eagleville, CA                | Apr-July        | 6.0                | 140                             | 4.3       |
| Quinn River near McDermitt, NV                 | Apr-July        | 36                 | 225                             | 16        |
| E. Fork Quinn R. near McDermitt, NV            | Apr-July        | 36                 | 225                             | 16        |
| McDermitt Creek near McDermitt, NV             | Apr-July        | 27                 | 225                             | 12        |
| <u>EASTERN NEVADA</u>                          |                 |                    |                                 |           |
| Franklin River near Arthur, NV                 | Apr-July        | 120                | 203                             | 5.9       |
| Steptoe Creek near Ely, NV                     | Apr-July        | 3.8                | 190                             | 2         |
| <u>COLORADO RIVER</u>                          |                 |                    |                                 |           |
| Virgin River at Littlefield, AZ                | Apr-July        | 60                 | 98                              | 61        |
| Virgin River at Hurricane, UT                  | Apr-June        | 68                 | 110                             | 62        |

NOTE: Streamflow forecasts which appear in this Bulletin are a coordinated activity of the National Weather Service and the Soil Conservation Service.

1/ Observed flow plus change in storage in Boca, Stampede, and Prosser Reservoirs, Donner, Independence, and Martis Creek Lakes, and minus the flow at Truckee River at Tahoe City, California.

2/ Observed flow plus change in storage in Bridgeport Reservoir.

3/ Observed flow plus change in storage in Wildhorse Reservoir.



# RESERVOIR STORAGE (Thousand Acre Feet) AS OF MARCH 1, 1984

| Basin or Stream | RESERVOIR  | Usable Capacity | Usable Storage |           |          |
|-----------------|------------|-----------------|----------------|-----------|----------|
|                 |            |                 | This Year      | Last Year | Average† |
| Owyhee          | Wild Horse | 72              | 58             | 59        | 30       |
| Lower Humboldt  | Rye Patch  | 194             | 111            | 177       | 121      |
| Colorado        | Mohave     | 1,810           | 1,745          | 1,651     | 1,674    |
| Colorado        | Mead       | 26,159          | 24,046         | 24,427    | 17,520   |
| Tahoe           | Tahoe      | 745             | 508            | 555       | 491      |
| Truckee         | Boca       | 41              | 25             | 24        | 19       |
| Truckee         | Stampede** | 222             | 201            | 202       | 120*     |
| Truckee         | Prosser*** | 30              | 9              | 9         | 8*       |
| Carson          | Lahontan   | 295             | 203            | 195       | 232      |
| West Walker     | Topaz      | 59              | 53             | 46        | 44       |
| East Walker     | Bridgeport | 42              | 34             | 33        | 34       |

† Adjusted average.  
 \*\* Storage began August 1, 1969.  
 \*\*\* Flood Control use allocation of 20,000 acre-feet between November 1 and April 10.

1961-1980 Average

## TOTAL RESERVOIR STORAGE (Thousand Acre Feet)

| MONTH      | This Year | Last Year | Average † |
|------------|-----------|-----------|-----------|
| October    | 705       | 1,172     | 786       |
| January 1  | 1,211     | 1,070     | 844       |
| February 1 | 1,041     | 1,114     | 920       |
| March 1    | 992       | 1,089     | 968       |
| April 1    |           | 1,079     | 1,010     |
| May 1      |           | 972       | 1,032     |

The above data developed from Wild Horse, Rye Patch, Tahoe, Boca, Lahontan, Topaz, and Bridgeport Reservoirs in 1,000 Acre-feet.

TOTAL USABLE CAPACITY 1448

## PEAK FLOWS (MAXIMUM MEAN DAILY) (Avg. flow for 24 hrs. on day of greatest flow)

| FORECAST POINT                                | PEAK FLOW (SECOND FEET) |           |
|---|-------------------------|-----------|
|   | Forecast Range          | Average † |
| East Fork Carson River near Gardnerville, NV  | 1800 - 2300             | 1,865     |
| Carson River near Carson City, NV             | 2600 - 3200             | 2,098     |
| Carson River near Ft. Churchill, NV           | 2150 - 2750             | 1,914     |
| W. Walker R. below L. Walker nr Coleville, CA | 1830 - 2330             | 1,589     |

## FORECAST DATE of LOW FLOW VALUES

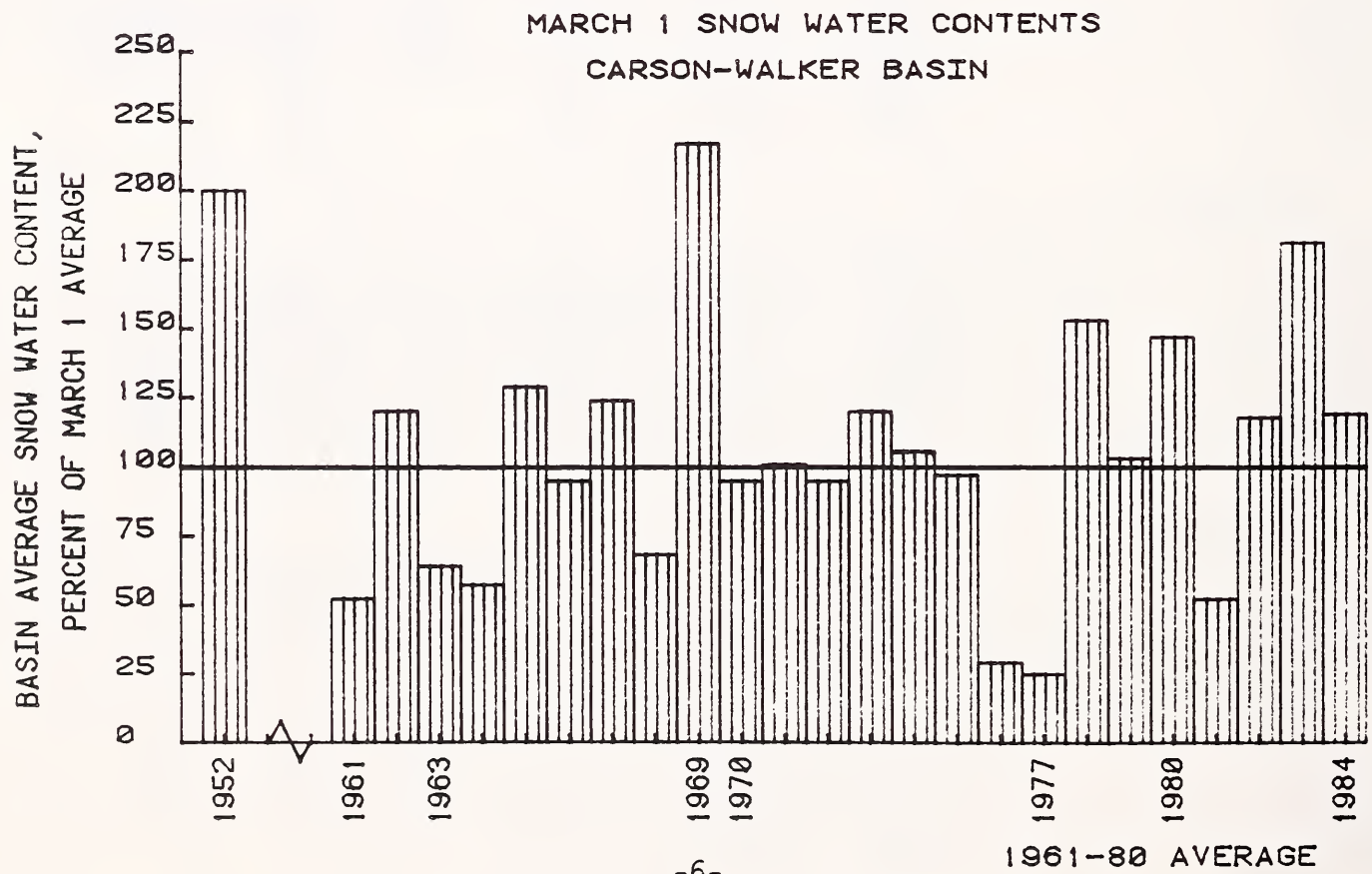
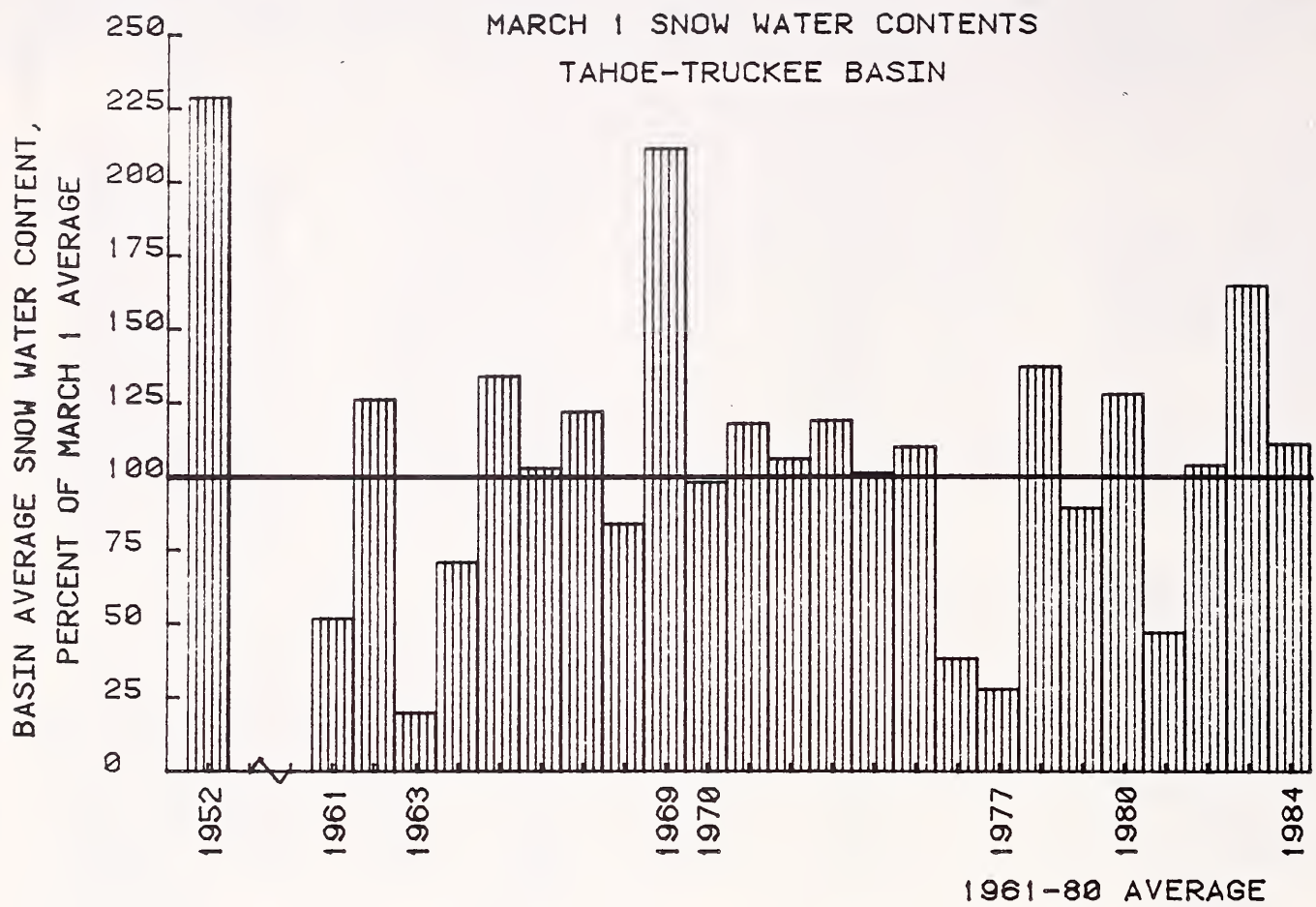
| FORECAST POINT                          | Low Flow Value Second/Ft. | Forecast Date Stream Will Recede to Low Flow Value | Average Date of Low Flow Value |
|---|---------------------------|--|--------------------------------|
| East Carson River near Gardnerville, NV | 200                       | 9/1  | 7/24                           |

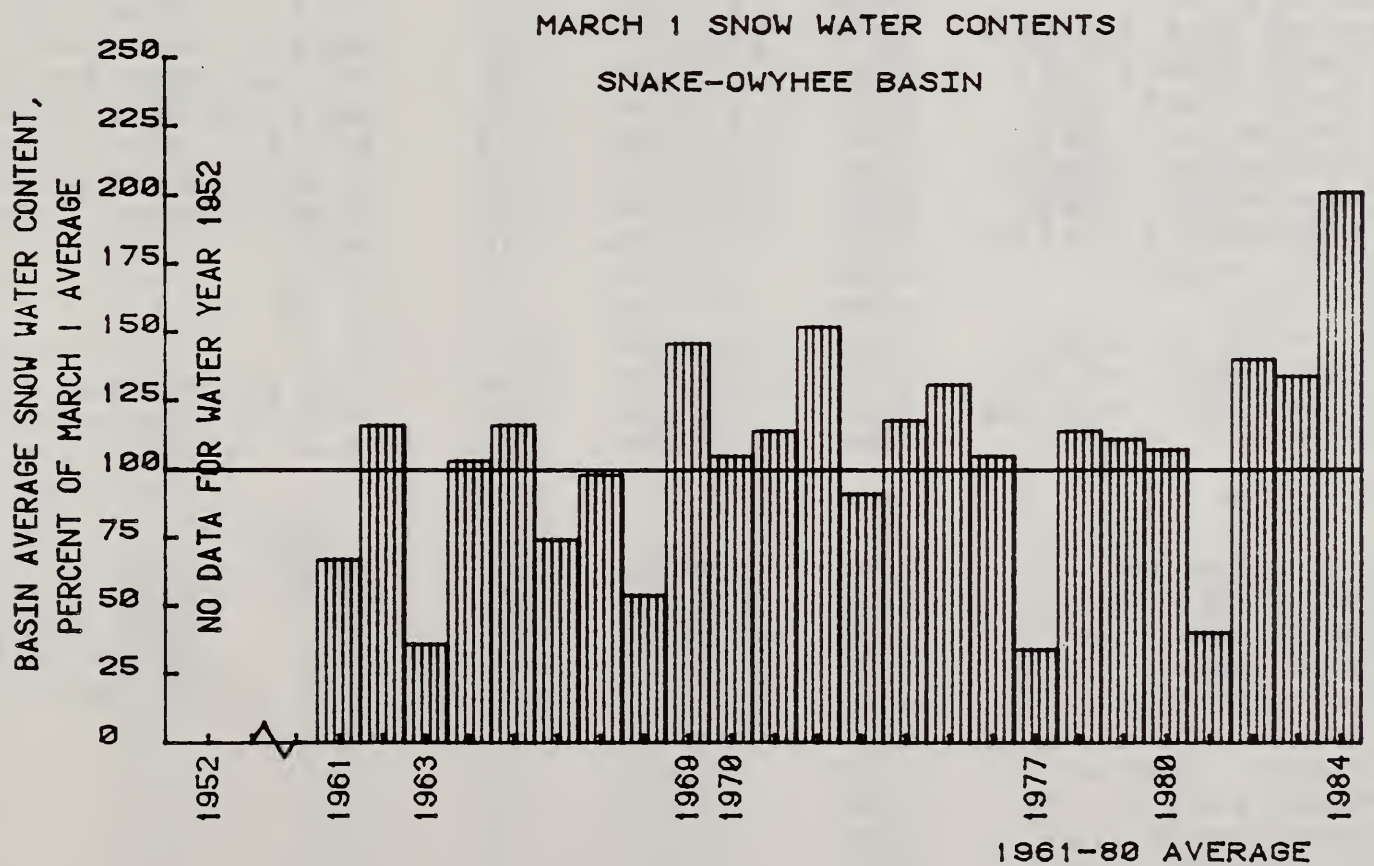
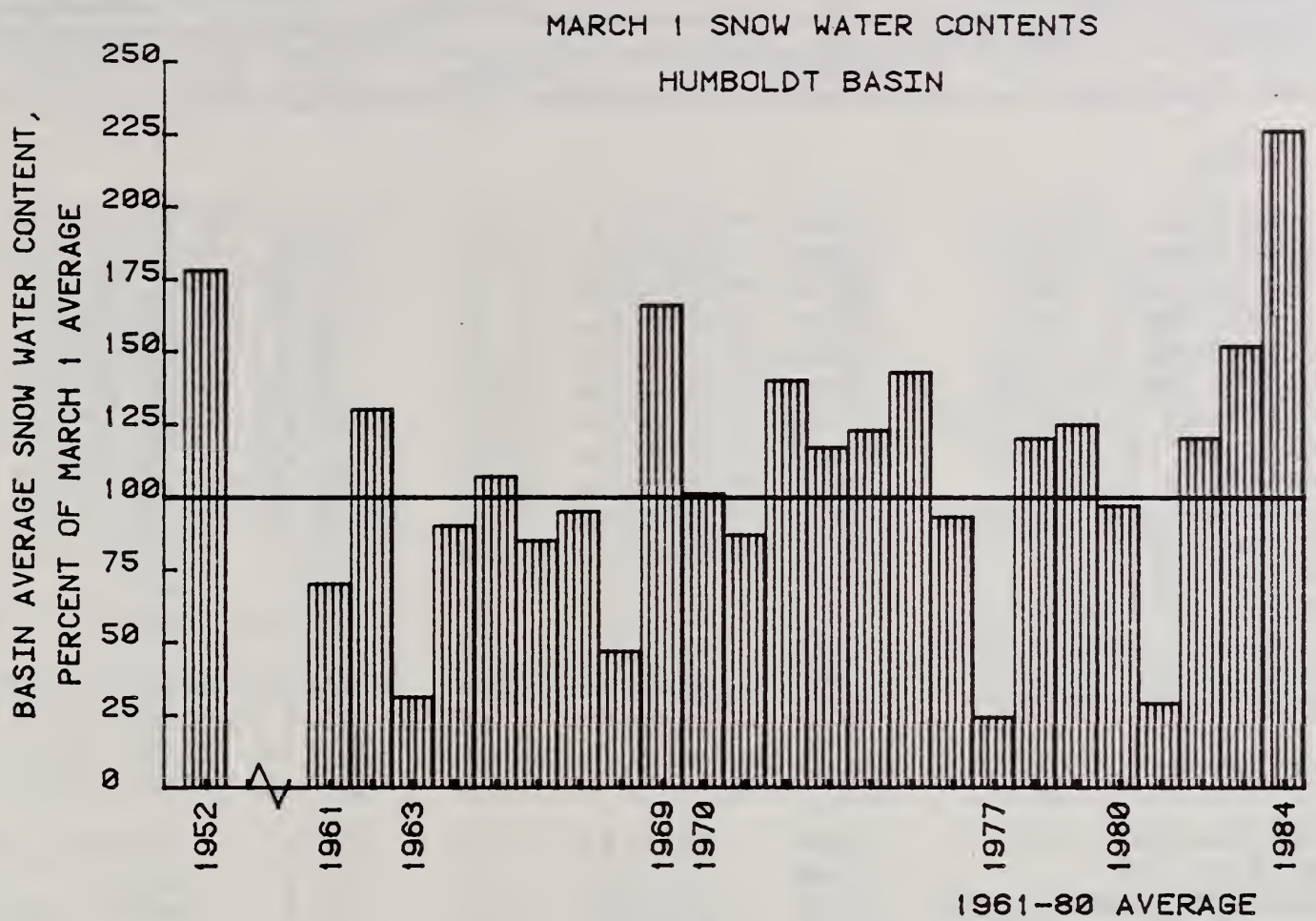
# PRECIPITATION (Inches)

| DRAINAGE BASIN and<br>PRECIPITATION GAGE LOCATION | ELEVATION | CURRENT INFORMATION |                          |           | FROM APPROX. OCT 1 TO DATE |           |                    |
|---|-----------|---------------------|--------------------------|-----------|----------------------------|-----------|--------------------|
|   |           | Date of<br>Reading  | Month's<br>Precipitation | Last Year | This Year                  | Last Year | MARCH<br>1 Average |
| <u>TAHOE-TRUCKEE</u>                              |           |                     |                          |           |                            |           |                    |
| Big Meadows                                       | 8,300     | 3/1/84              | 4.7                      | 9.0       | 27.7                       | 36.0      | 36.3               |
| Central Sierra Snow Lab                           | 6,900     | 3/1/84              | ----                     | 15.5      | ----                       | 63.1      | ----               |
| Echo Peak (CA)                                    | 7,800     | 3/1/84              | 11.5                     | 18.6      | 66.8                       | 62.4      | 40.5               |
| Fallen Leaf (CA)                                  | 6,240     | 3/1/84              | 2.0                      | 8.6       | 16.3                       | 35.0      | 24.1               |
| Hagan's Meadows (CA)                              | 8,000     | 3/1/84              | 4.8                      | 7.4       | 27.7                       | 27.2      | 21.2               |
| Heavenly Valley (CA)                              | 8,800     | 3/1/84              | 4.8                      | 8.2       | 28.2                       | 33.7      | 23.0               |
| Independence Camp (CA)                            | 7,000     | 3/1/84              | 4.5                      | 8.8       | 33.7                       | 33.2      | 23.5               |
| Independence Creek (CA)                           | 6,500     | 3/1/84              | 4.1                      | 9.3       | 34.7                       | 35.3      | 26.4               |
| Independence Lake (CA)                            | 8,450     | 3/1/84              | 6.0                      | 14.3      | 41.2                       | 48.2      | 32.2               |
| Marlette Lake                                     | 8,000     | 3/1/84              | 5.0                      | 8.8       | 31.0                       | 36.1      | 22.5               |
| Mount Rose  | 9,000     | 3/1/84              | 6.4                      | ----      | 33.2                       | ----      | 22.8               |
| Mount Rose Ski Area                               | 8,850     | 3/1/84              | 8.3                      | 17.1      | 51.5                       | 64.5      | 49.3               |
| Rubicon #2 (CA)                                   | 7,500     | 3/1/84              | 6.1                      | 10.8      | 40.1                       | 44.1      | 33.7               |
| Squaw Valley Gold Coast                           | 7,800     | 3/1/84              | 4.5                      | ----      | 57.4                       | ----      | 61.0               |
| Tahoe City Cross (CA)                             | 6,750     | 3/1/84              | 5.3                      | 9.9       | 36.9                       | 37.6      | 33.2               |
| Truckee #2 (CA)                                   | 6,400     | 3/1/84              | 3.9                      | 8.6       | 31.4                       | 34.2      | 27.4               |
| Ward Creek #3 (CA)                                | 6,750     | 3/1/84              | 6.5                      | 17.5      | 70.0                       | 65.7      | 48.7               |
| <u>CARSON-WALKER</u>                              |           |                     |                          |           |                            |           |                    |
| Blue Lakes (CA)                                   | 8,000     | 3/1/84              | 5.6                      | 12.8      | 37.6                       | 53.1      | 36.7               |
| Ebbetts Pass #2 (CA)                              | 8,700     | 3/1/84              | 7.3                      | 13.4      | 44.7                       | 57.6      | 35.9               |
| Leavitt Meadows (CA)                              | 7,200     | 3/1/84              | 2.7                      | 6.0       | 29.3                       | 31.9      | 29.8               |
| Lobdell Lake (CA)                                 | 9,200     | 3/1/84              | 2.8                      | 6.1       | 19.5                       | 27.6      | 16.5               |
| Pine Nut Creek (CA)                               | 6,600     | 3/1/84              | ----                     | ----      | ----                       | ----      | ----               |
| Poison Flat (CA)                                  | 7,900     | 3/1/84              | 4.0                      | 7.4       | ----                       | 34.9      | 24.0               |
| Sonora Pass Bridge (CA)                           | 8,800     | 3/1/84              | 4.7                      | 8.9       | 32.9                       | 41.0      | 23.9               |
| Spratt Creek (CA)                                 | 6,080     | 3/1/84              | 3.6                      | 7.9       | 30.0                       | 36.9      | 25.7               |
| Virginia Lakes Ridge (CA)                         | 9,200     | 3/1/84              | 4.3                      | 7.2       | 23.2                       | 30.2      | 6.5                |
| Wet Meadows (CA)                                  | 8,050     | 3/1/84              | 5.8                      | 12.4      | 42.9                       | 51.0      | 33.1               |
| <u>HUMBOLDT</u>                                   |           |                     |                          |           |                            |           |                    |
| Big Creek Summit                                  | 8,700     | 3/1/84              | 3.2                      | 2.4       | 21.3                       | 16.5      | 8.2                |
| Buckskin, Lower                                   | 6,700     | 3/1/84              | 4.3                      | 3.5       | 22.6                       | 15.8      | 14.2               |
| Corral Canyon                                     | 8,500     | 3/1/84              | 4.8                      | 2.5       | 24.9                       | 17.6      | 13.4               |
| Dorsey Basin                                      | 8,100     | 3/1/84              | 1.8                      | 3.9       | 28.0                       | 20.0      | 16.2               |
| Fry Canyon  | 6,700     | 3/1/84              | NR                       | ----      | ----                       | ----      | NR                 |
| Granite Peak                                      | 7,800     | 3/1/84              | 3.6                      | 5.2       | ----                       | 22.4      | 17.2               |
| Green Mountain                                    | 8,000     | 3/1/84              | 6.0                      | 4.2       | 32.9                       | 20.9      | 20.4               |
| Lamance Creek                                     | 6,000     | 3/1/84              | 3.3                      | 5.2       | 28.8                       | 20.2      | ----               |
| Lamoille #3                                       | 7,700     | 3/1/84              | 2.2                      | 2.3       | 9.3                        | 16.8      | 7.2                |
| Martin Creek                                      | 6,700     | 3/1/84              | NR                       | ----      | NR                         | ----      | ----               |
| Rodeo Flat  | 6,800     | 3/1/84              | NR                       | ----      | NR                         | ----      | ----               |
| Trout Creek, Lower                                | 6,900     | 3/1/84              | NR                       | ----      | NR                         | ----      | ----               |
| <u>SNAKE-OWYHEE</u>                               |           |                     |                          |           |                            |           |                    |
| Bear Creek  | 7,800     | 3/1/84              | 5.2                      | 4.5       | 29.1                       | 18.9      | 17.2               |
| Big Bend  | 6,700     | 3/1/84              | 2.2                      | ----      | 15.5                       | ----      | 9.5                |
| Fawn Creek #2                                     | 7,000     | 3/1/84              | 6.0                      | 4.2       | 30.8                       | 21.5      | 11.1               |
| Goat Creek  | 8,800     | 3/1/84              | 4.4                      | ----      | 27.7                       | 20.1      | 18.4               |
| Jack Creek #2, Upper                              | 7,250     | 3/1/84              | 2.1                      | 4.0       | 21.0                       | 19.0      | 15.6               |
| Jacks Peak  | 8,420     | 3/1/84              | 2.8                      | 6.1       | 27.2                       | 28.6      | 31.1               |
| Laurel Draw                                       | 6,700     | 3/1/84              | 3.2                      | 3.7       | 25.9                       | 15.6      | 15.5               |
| Pole Creek Ranger Station                         | 8,330     | 3/1/84              | 2.5                      | 2.0       | 17.8                       | 10.4      | 11.3               |
| Seventy Six Creek                                 | 7,100     | 3/1/84              | 2.9                      | 3.3       | 21.4                       | 13.3      | 12.7               |
| Taylor Canyon                                     | 6,200     | 3/1/84              | NR                       | 1.1       | NR                         | 5.7       | ----               |
| <u>EASTERN NEVADA</u>                             |           |                     |                          |           |                            |           |                    |
| Gerry Creek                                       | 9,100     | 3/1/84              | 2.5                      | ----      | 15.2                       | ----      | 13.5               |
| Hole-in-Mountain                                  | 7,900     | 3/1/84              | 1.6                      | 3.7       | 33.6                       | 17.2      | 30.0               |
| Ward Mountain                                     | 8,900     | 3/1/84              | 1.8                      | 4.9       | 13.4                       | 17.7      | 11.2               |
| <u>NORTHERN GREAT BASIN</u>                       |           |                     |                          |           |                            |           |                    |
| Cedar Pass (CA)                                   | 7,100     | 3/1/84              | NR                       | 5.7       | NR                         | 23.1      | ----               |
| Disaster Peak                                     | 6,500     | 3/1/84              | 2.7                      | 3.6       | 22.7                       | 17.7      | 13.9               |
| Dismal Swamp #2 (CA)                              | 7,050     | 3/1/84              | 3.8                      | 9.5       | 33.7                       | 37.1      | ----               |
| Ferguson Ranch                                    | 5,560     | 3/1/84              | 3.3                      | ----      | ----                       | ----      | ----               |
| 49 Mountain                                       | 6,000     | 3/1/84              | 5.1                      | ----      | ----                       | ----      | ----               |
| Mount Bidwell (CA)                                | 7,240     | 3/1/84              | ----                     | ----      | ----                       | ----      | ----               |

NR = NO REPORT









# SNOW COURSE MEASUREMENTS

| DRAINAGE BASIN and/or SNOW COURSE |  | THIS YEAR      |                        |                           | PAST RECORD   |           |
|-----------------------------------|--|----------------|------------------------|---------------------------|---------------|-----------|
|                                   |  | Date of Survey | Snow Depth<br>(inches) | Water Content<br>(inches) | Water Content |           |
|                                   |  |                |                        |                           | Last Year     | Average + |

## LAKE TAHOE

|                       |      |         |     |      |      |      |
|-----------------------|------|---------|-----|------|------|------|
| ECHO PEAK (CA)        | 7800 | 2/27/84 | 104 | 42.5 | 50.0 | 34.1 |
| ECHO SUMMIT (CA)      | 7450 | 2/29/84 | 95  | 36.8 | 44.6 | 28.5 |
| FALLEN LEAF (CA)      | 6300 | 2/24/84 | 14  | 6.0  | 18.8 | 6.8  |
| FREEL BENCH (CA)      | 7300 | 2/27/84 | 26  | 8.4  | 20.7 | 11.0 |
| GLENBROOK #2          | 6900 | 3/02/84 | 31  | 9.9  | 20.8 | 10.3 |
| HAGANS MEADOW (CA)    | 8000 | 2/27/84 | 50  | 16.6 | 26.4 | 15.8 |
| HEAVENLY VALLEY (CA)  | 8850 | 2/24/84 | 86  | 28.4 | 43.3 | 25.1 |
| LAKE LUCILLE (CA)     | 8200 | 3/02/84 | 162 | 69.4 | 79.5 | 51.0 |
| MARLETTE LAKE         | 8000 | 2/28/84 | 69  | 25.6 | 32.6 | 18.8 |
| RICHARDSONS #2 (CA)   | 6500 | 3/02/84 | 41  | 13.0 | 28.0 | 14.6 |
| RUBICON #1 (CA)       | 8100 | 3/02/84 | 134 | 53.0 | 56.0 | 39.3 |
| RUBICON #2 (CA)       | 7500 | 3/02/84 | 81  | 31.6 | 44.9 | 24.8 |
| TAHOE CITY CROSS (CA) | 6750 | 3/02/84 | 45  | 17.8 | 39.6 | 17.6 |
| TRUCKEE, UPPER (CA)   | 6400 | 2/27/84 | 22  | 7.4  | 15.8 | 9.4  |
| WARD CREEK #2 (CA)    | 7000 | 3/01/84 | 104 | 41.0 | 53.8 | 34.3 |
| WARD CREEK #3 (CA)    | 6750 | 2/27/84 | 98  | 38.0 | 50.8 | 31.5 |

## TRUCKEE RIVER

|                       |      |         |     |       |      |      |
|-----------------------|------|---------|-----|-------|------|------|
| BIG MEADOWS (CA)      | 8300 | 2/27/84 | 64  | 23.1  | 31.0 | --   |
| BOCA #2 (CA)          | 5900 | 2/26/84 | 10  | 4.2   | 11.5 | 5.9  |
| BROCKWAY SUMMIT (CA)  | 7100 | 3/02/84 | 45  | 16.2  | 34.0 | 16.5 |
| CASTLE CREEK (CA)     | 7400 | 3/01/84 | 136 | 56.0  | 49.7 | 42.4 |
| CSS LAB (CA)          | 6900 | 3/02/84 | 94  | 35.9  | --   | --   |
| DONNER PARK #2 (CA)   | 6000 | 2/26/84 | 27  | 9.1   | 21.9 | 15.1 |
| DONNER SUMMIT (CA)    | 6900 | 2/27/84 | 96  | 39.2  | 55.4 | 32.7 |
| FORDYCE LAKE (CA)     | 6500 | 2/29/84 | 85  | 36.0  | 59.6 | 32.8 |
| FURNACE FLAT (CA)     | 6700 | 2/29/84 | 102 | 43.7  | 66.2 | 38.0 |
| INDEPENDENCE CAMP CA  | 7000 | 2/27/84 | 67  | 23.4  | 28.5 | 19.5 |
| INDEPENDENCE CREEK    | 6500 | 2/27/84 | 36  | 11.8  | 20.3 | 12.2 |
| INDEPENDENCE LAKE CA  | 8450 | 2/27/84 | 106 | 40.3  | 47.4 | 34.9 |
| LITTLE VALLEY         | 6300 | 2/27/84 | 8   | 1.6   | 8.9  | 8.0  |
| MT. ROSE              | 9000 | 3/01/84 | 95  | 37.3E | 49.2 | 30.4 |
| MT. ROSE SKI AREA     | 9000 | 3/02/84 | 117 | 46.9  | 61.3 | 38.2 |
| SQUAW VALLEY #2 (CA)  | 7500 | 2/27/84 | 94  | 32.8  | 66.9 | 41.8 |
| SQUAW VALLEY G.C., CA | 8200 | 3/02/84 | 133 | 54.5  | 75.5 | 3.2  |
| TRUCKEE #2 (CA)       | 6400 | 3/02/84 | 32  | 10.8  | 25.9 | 13.1 |

## CARSON RIVER

|                        |      |         |     |      |      |      |
|------------------------|------|---------|-----|------|------|------|
| BLUE LAKES (CA)        | 8000 | 2/23/84 | 102 | 36.0 | 47.5 | 32.9 |
| ECHO PEAK (CA)         | 7800 | 2/27/84 | 104 | 42.5 | 50.0 | 34.1 |
| CARSON PASS, UP (CA)   | 8600 | 2/24/84 | 93  | 38.3 | 45.9 | 29.7 |
| CLEAR CREEK            | 7300 | 2/27/84 | 22  | 7.9  | 12.0 | 11.5 |
| EBBETTS PASS #2 (CA)   | 8700 | 2/28/84 | 103 | 41.5 | 66.0 | 32.9 |
| FISH VALLEY, UP AM, CA | 8050 | 2/28/84 | 45  | 14.8 | 24.3 | 13.1 |
| MONITOR PASS AM (CA)   | 8350 | 2/28/84 | 48  | 17.3 | 34.7 | --   |
| POISON FLAT #2 (CA)    | 7900 | 2/28/84 | 56  | 17.2 | 27.3 | 15.7 |
| SPRATT CREEK (CA)      | 6080 | 2/29/84 | 6   | 2.5  | 12.5 | --   |
| WET MEADOWS LAKE AM    | 8050 | 2/28/84 | 90  | 36.0 | --   | 24.3 |
| WET MEADOWS #2 (CA)    | 8100 | 2/28/84 | 107 | 42.5 | 64.7 | 35.5 |
| WOLF CREEK AM (CA)     | 8000 | 2/28/84 | 94  | 37.6 | 52.6 | 28.4 |

# SNOW COURSE MEASUREMENTS

| DRAINAGE BASIN and/or SNOW COURSE |           | THIS YEAR      |                        |                           | PAST RECORD   |           |
|-----------------------------------|-----------|----------------|------------------------|---------------------------|---------------|-----------|
|                                   |           | Date of Survey | Snow Depth<br>(inches) | Water Content<br>(inches) | Water Content |           |
| NAME                              | Elevation |                |                        |                           | Last Year     | Average + |

## WALKER RIVER

|                      |      |         |     |      |      |      |
|----------------------|------|---------|-----|------|------|------|
| CENTER MOUNTAIN (CA) | 9400 | 2/28/84 | 106 | 41.6 | 64.4 | 33.3 |
| LEAVITT LAKE (CA)    | 9400 | 2/28/84 | 126 | 53.6 | 58.6 | 40.9 |
| LEAVITT MEADOWS (CA) | 7200 | 2/28/84 | 21  | 9.2  | 33.3 | 10.1 |
| LOBDELL LAKE (CA)    | 9200 | 2/28/84 | 53  | 18.2 | 33.2 | 15.4 |
| SAWMILL RIDGE (CA)   | 8750 | 2/28/84 | 53  | 18.0 | 35.2 | 17.3 |
| SONORA PASS (CA)     | 8800 | 2/28/84 | 71  | 28.3 | 44.3 | 22.1 |
| SONORA PASS BRIDGE   | 8800 | 2/28/84 | 73  | 28.5 | 41.0 | 22.9 |
| TIOGA PASS (CA)      | 9900 | 3/01/84 | 79  | 33.7 | --   | 27.9 |
| VIRGINIA LAKES (CA)  | 9500 | 2/28/84 | 51  | 18.8 | 31.1 | 15.8 |
| VIRGINIA LAKES RIDGE | 9200 | 2/28/84 | 56  | 20.5 | 31.4 | 16.2 |
| WILLOW FLAT (CA)     | 8250 | 2/28/84 | 33  | 12.5 | 23.6 | 10.0 |

## NORTHERN GREAT BASIN

|                     |      |         |    |       |      |      |
|---------------------|------|---------|----|-------|------|------|
| DENIO CREEK AM (OR) | 6000 | 2/18/84 | 3  | 1.3E  | 1.2  | .6   |
| DISASTER PEAK       | 6500 | 2/18/84 | 65 | 24.7  | 20.6 | 11.6 |
| QUINN RIDGE AM (OR) | 6300 | 3/04/84 | 8  | 3.0E  | 3.4  | 1.6  |
| TROUT CREEK AM (OR) | 7800 | 3/04/84 | 28 | 10.8E | 11.8 | 7.0  |

## SNAKE RIVER

|                     |      |         |    |      |      |      |
|---------------------|------|---------|----|------|------|------|
| BEAR CREEK          | 7800 | 3/06/84 | 78 | 29.2 | 21.8 | 17.9 |
| FOX CREEK           | 6800 | 3/06/84 | 48 | 15.9 | 11.6 | 9.7  |
| GOAT CREEK          | 8800 | 3/06/84 | 73 | 26.8 | 17.5 | 15.6 |
| HUMMINGBIRD SPRINGS | 8950 | 3/06/84 | 84 | 30.1 | 23.2 | 19.5 |
| JAKES CREEK AM      | 7000 | 3/01/84 | 29 | 10.2 | 8.4  | 4.7  |
| MERRIT MOUNTAIN AM  | 7000 | 3/01/84 | 60 | 20.4 | 7.8  | 6.4  |
| POLE CREEK R.S.     | 8330 | 3/06/84 | 78 | 28.8 | 15.1 | 17.4 |
| SEVENTYSIX CREEK    | 7100 | 2/28/84 | 61 | 21.7 | 14.4 | 10.5 |
| STAG MOUNTAIN AM    | 7700 | 3/01/84 | 42 | 13.0 | 8.5  | 5.4  |

## OWYHEE RIVER

|                      |      |         |     |       |      |      |
|----------------------|------|---------|-----|-------|------|------|
| BIG BEND             | 6700 | 2/28/84 | 49  | 15.9  | 10.7 | 7.5  |
| COLUMBIA BASIN AM    | 6650 | 3/01/84 | 62  | 21.1  | 10.5 | 8.2  |
| FAWN CREEK AM        | 7050 | 2/28/84 | 84  | 26.9  | 17.6 | 10.5 |
| FAWN CREEK #2        | 7050 | 2/28/84 | 78  | 27.6S | --   | --   |
| GOLD CREEK           | 6600 | 2/28/84 | 37  | 11.7  | 6.8  | 4.9  |
| JACK CREEK, LOWER    | 6800 | 2/28/84 | 46  | 17.6  | 7.8  | 3.6  |
| JACK CREEK, UPPER    | 7250 | 2/28/84 | 70  | 23.5  | 11.3 | 6.7  |
| JACK CREEK #2, UPPER | 7280 | 2/28/84 | 85  | 28.5S | 26.8 | --   |
| JACKS PEAK           | 8420 | 2/28/84 | 109 | 37.0  | 27.3 | 20.9 |
| LAUREL DRAW          | 6700 | 2/28/84 | 52  | 15.9  | 11.2 | 6.9  |
| TAYLOR CANYON        | 6200 | 2/28/84 | 37  | 13.6  | 9.4  | 4.5  |



# SNOW COURSE MEASUREMENTS

| DRAINAGE BASIN and/or SNOW COURSE |           | THIS YEAR      |                        |                           | PAST RECORD   |           |
|-----------------------------------|-----------|----------------|------------------------|---------------------------|---------------|-----------|
|                                   |           | Date of Survey | Snow Depth<br>(inches) | Water Content<br>(inches) | Water Content |           |
| NAME                              | Elevation |                |                        |                           | Last Year     | Average + |

## UPPER HUMBOLDT RIVER

|                       |      |         |     |      |      |      |
|-----------------------|------|---------|-----|------|------|------|
| AMERICAN BEAUTY AM    | 7800 | 3/01/84 | 60  | 19.8 | 11.6 | 8.5  |
| CORRAL CANYON         | 8500 | 2/29/84 | 76  | 24.8 | 16.9 | 12.3 |
| DORSEY BASIN          | 8100 | 2/29/84 | 76  | 27.7 | 14.4 | 10.4 |
| DRAW CREEK #2         | 7450 | 2/28/84 | 53  | 20.6 | --   | --   |
| DRY CREEK             | 6500 | 2/29/84 | 46  | 14.9 | 9.6  | 3.5  |
| FRY CANYON            | 6700 | 2/28/84 | 48  | 15.6 | 10.6 | 5.9  |
| GREEN MOUNTAIN        | 8000 | 2/29/84 | 83  | 28.9 | 15.8 | 10.9 |
| HARRISON PASS #1      | 6600 | 2/29/84 | 38  | 11.0 | 7.7  | 3.5  |
| HARRISON PASS #2      | 7400 | 2/29/84 | 42  | 13.1 | 9.0  | 4.3  |
| LAMOILLE #1           | 7100 | 2/29/84 | 54  | 16.5 | 11.2 | 8.1  |
| LAMOILLE #3           | 7700 | 2/29/84 | 64  | 19.8 | 11.1 | 10.1 |
| LAMOILLE #5           | 8700 | 2/29/84 | 100 | 40.5 | 24.0 | 21.3 |
| POLE CANYON #2        | 7700 | 2/29/84 | 99  | 35.5 | 17.3 | 13.5 |
| ROBINSON LAKE AM      | 9200 | 3/01/84 | 120 | 49.2 | 42.0 | 25.7 |
| RODEO FLAT            | 6800 | 2/28/84 | 53  | 17.9 | 12.4 | 4.6  |
| RYAN RANCH            | 5800 | 2/29/84 | 21  | 5.8  | 3.1  | .8   |
| SMITH CREEK           | 7700 | 2/29/84 | 75  | 25.3 | 17.7 | 10.9 |
| TREMEWAN RANCH        | 5700 | 2/28/84 | 20  | 6.8  | 4.0  | 1.5  |
| TROUT CREEK, LOWER    | 6900 | 2/29/84 | 33  | 99.1 | 7.9  | 2.8  |
| TROUT CREEK, UPPER AM | 8500 | 2/29/84 | 70  | 27.0 | 11.9 | 15.4 |

## LOWER HUMBOLDT RIVER

|                      |      |         |    |       |      |      |
|----------------------|------|---------|----|-------|------|------|
| BIG CREEK CAMPGROUND | 6600 | 2/29/84 | 4  | 1.6   | 3.3  | 1.6  |
| BIG CREEK MINE       | 7600 | 2/29/84 | 37 | 12.4  | 7.7  | 4.4  |
| BIG CREEK SUMMIT     | 8700 | 3/01/84 | 92 | 29.7S | 21.0 | 10.0 |
| BIG CREEK, UPPER     | 7800 | 2/29/84 | 45 | 14.6  | 7.4  | 5.4  |
| BUCKSKIN, LOWER      | 6700 | 2/18/84 | 45 | 14.4  | 12.6 | 7.1  |
| BUCKSKIN, UPPER      | 8200 | 2/18/84 | 57 | 23.8  | 13.6 | 8.4  |
| GOLCONDA #2          | 6000 | 2/29/84 | 42 | 16.8  | 11.7 | 4.5  |
| GRANITE PEAK         | 7800 | 2/18/84 | 62 | 26.4  | 24.9 | 13.1 |
| LAMANCE CREEK        | 6000 | 2/18/84 | 60 | 22.6  | 17.3 | 9.0  |
| MARTIN CREEK         | 6700 | 2/18/84 | 50 | 16.8  | 17.8 | 8.4  |
| MIDAS                | 7200 | 3/01/84 | 36 | 12.6  | 11.0 | 2.2  |
| SNOWSTORM MOUNTAIN   | 7420 | 3/01/84 | 63 | 22.0  | 21.0 | 10.9 |
| TOE JAM AM           | 7700 | 3/01/84 | 60 | 20.4  | 11.7 | 8.5  |

## EASTERN NEVADA

|                   |      |         |     |      |      |      |
|-------------------|------|---------|-----|------|------|------|
| BAKER CREEK #1    | 7950 | 2/28/84 | 22  | 4.9  | 6.0  | 5.6  |
| BAKER CREEK #2    | 8950 | 2/28/84 | 45  | 13.4 | 13.0 | 11.0 |
| BAKER CREEK #3 AM | 9250 | 2/28/84 | 44  | 11.4 | 13.9 | 11.9 |
| BERRY CREEK       | 9100 | 2/26/84 | 65  | 20.8 | 16.2 | 11.4 |
| BIRD CREEK        | 7500 | 2/29/84 | 23  | 4.2  | 5.1  | 3.4  |
| DEFIANCE MINES AM | 9400 | 2/26/84 | 67  | 20.0 | 20.9 | 24.4 |
| HOLE-IN-MOUNTAIN  | 7900 | 2/29/84 | 104 | 43.7 | 20.7 | 18.6 |
| KALAMAZOO CREEK   | 7400 | 2/24/84 | 39  | 12.0 | 11.2 | 6.0  |
| MURRAY SUMMIT     | 7250 | 2/27/84 | 21  | 4.6  | 5.6  | 2.9  |
| ROBINSON SUMMIT   | 7600 | 2/27/84 | 15  | 4.0  | 2.7  | 2.0  |
| SILVER CREEK #2   | 8000 | 2/26/84 | 24  | 6.8  | .1   | 5.1  |
| WARD MOUNTAIN #2  | 9200 | 2/26/84 | 36  | 11.1 | 17.1 | 6.4  |



# SNOW COURSE MEASUREMENTS

| DRAINAGE BASIN and/or SNOW COURSE |           | THIS YEAR      |                        |                           | PAST RECORD   |           |
|-----------------------------------|-----------|----------------|------------------------|---------------------------|---------------|-----------|
|                                   |           | Date of Survey | Snow Depth<br>(inches) | Water Content<br>(inches) | Water Content |           |
| NAME                              | Elevation |                |                        |                           | Last Year     | Average + |

## CENTRAL GREAT BASIN

## LOWER COLORADO RIVER

|                   |      |         |    |     |      |      |
|-------------------|------|---------|----|-----|------|------|
| CORDUROY FLAT     | 8720 | 2/26/84 | 19 | 4.9 | 8.8  | --   |
| KYLE CANYON       | 8200 | 2/27/84 | 9  | 2.8 | 13.2 | 8.9  |
| LEE CANYON #2     | 9000 | 2/27/84 | 14 | 3.8 | 21.1 | 6.4  |
| LEE CANYON #3     | 8500 | 2/27/84 | 10 | 3.4 | 11.7 | 6.7  |
| RAINBOW CANYON #2 | 8100 | 2/27/84 | 12 | 4.1 | 18.8 | 12.2 |
| WHITE RIVER #1    | 7400 | 2/26/84 | 26 | 6.8 | 8.3  | 2.7  |

# SNOW COURSE MEASUREMENTS

| DRAINAGE BASIN and or SNOW COURSE |           | THIS YEAR      |                        |                           | PAST RECORD   |           |
|-----------------------------------|-----------|----------------|------------------------|---------------------------|---------------|-----------|
|                                   |           | Date of Survey | Snow Depth<br>(inches) | Water Content<br>(inches) | Water Content |           |
| NAME                              | Elevation |                |                        |                           | Last Year     | Average + |

## DESERT RESEARCH INSTITUTE MEASUREMENTS

### TAHOE-TRUCKEE BASIN

|                         |       |          |      |      |      |      |
|-------------------------|-------|----------|------|------|------|------|
| Alder Creek             | 6,960 | 02/25/84 | 110  | 42.7 | 55.4 | ---- |
| Apollo Way              | 7,300 | 02/25/84 | 18   | 6.7  | 37.9 | ---- |
| Bennett Flat            | 6,200 | 02/25/84 | 38   | 12.9 | 29.0 | ---- |
| Brockway Summit         | 7,200 | 02/25/84 | 64   | 21.0 | 41.5 | ---- |
| Cabin Creek             | 6,540 | 02/25/84 | 35   | 12.4 | 28.8 | ---- |
| Clear Creek             | 5,800 | 02/26/84 | 0    | 0    | 0.9  | ---- |
| Cliff Ranch, Franktown  | 5,250 | 02/26/84 | 0    | 0    | 0    | ---- |
| Davis Creek             | 5,160 | 02/26/84 | 0    | 0    | 0    | ---- |
| Evergreen Hills Road    | 5,700 | 02/26/84 | 1.5  | 0.6  | 6.0  | ---- |
| Fuller Lake             | 6,200 | 02/26/84 | 3    | 1.0  | 6.1  | ---- |
| Galena Creek            | 7,440 | 02/25/84 | 65   | 21.5 | 0    | ---- |
| Hennessey Past Jct.     | 6,410 | 02/25/84 | 44   | 13.8 | 25.8 | ---- |
| Hobart Mills            | 5,850 | 02/25/84 | 23   | 8.5  | 17.3 | ---- |
| Incline Creek           | 6,235 | 02/25/84 | 3    | 1.2  | 10.2 | ---- |
| Jones Creek             | 6,000 | 02/25/84 | 3    | 1.1  | 7.5  | ---- |
| Joy Lake                | 6,000 | 02/26/84 | 1.5  | 0.5  | 2.1  | ---- |
| Jct. 395 & NV 27        | 4,590 | 02/26/84 | 0    | 0    | 0    | ---- |
| Lancer                  | 5,110 | 02/26/84 | 0    | 0    | 0    | ---- |
| Little Valley           | 6,540 | 02/26/84 | 18   | 6.2  | 0    | ---- |
| Mount Rose Resort       | 8,280 | 02/25/84 | 96   | 34.8 | 55.0 | ---- |
| North Star Fire Dept.   | 6,320 | 02/25/84 | 12   | 3.0  | 19.4 | ---- |
| RNR Forestry Site       | 6,400 | 02/25/84 | 25   | 8.5  | 17.5 | ---- |
| Reindeer Lodge          | 7,060 | 02/25/84 | 35   | 12.7 | 31.4 | ---- |
| Sagehen Creek           | 6,340 | 02/25/84 | 48   | 16.8 | 0    | ---- |
| Sky Tavern              | 7,620 | 02/25/84 | 60   | 23.8 | 36.0 | ---- |
| Spooner Summit          | 7,260 | 02/26/84 | 45.0 | 16.6 | 29.8 | ---- |
| Squaw Valley Fire Dept. | 6,240 | 02/25/84 | 30   | 8.8  | 38.3 | ---- |
| Tahoe City              | 6,240 | 02/25/84 | 30   | 10.2 | 30.4 | ---- |
| Tahoe Meadows           | 8,540 | 02/25/84 | 113  | 44.8 | 65.3 | ---- |
| Tamarack Lake           | 8,820 | 02/25/84 | 89   | 32.5 | 54.6 | ---- |
| Third Creek             | 8,000 | 02/25/84 | 67   | 24.5 | 43.2 | ---- |
| Thunder Cliff           | 6,200 | 02/25/84 | 31   | 9.9  | 29.8 | ---- |
| Truckee-Tahoe Airport   | 5,900 | 02/25/84 | 6    | 1.5  | 14.5 | ---- |
| Whites Creek            | 5,670 | 02/26/84 | 0    | 0    | 0.3  | ---- |

## AGENCIES COOPERATING IN COLLECTING DATA CONTAINED IN THIS BULLETIN

### FEDERAL

Agricultural Research Service  
Bureau of Reclamation  
Fish and Wildlife Service  
Forest Service  
Geological Survey  
Soil Conservation Service  
U.S. District Court - Federal Water Master  
NOAA, National Weather Service

### STATE

California Cooperative Snow Surveys  
California Department of Parks and Recreation  
California Department of Water Resources  
Colorado River Commission of Nevada  
Idaho Cooperative Snow Surveys  
Nevada Association of Conservation Districts  
Nevada Department of Conservation & Natural Resources  
    Division of Water Resources  
    Nevada State Forester  
    Division of Conservation Districts  
Oregon Cooperative Snow Surveys  
University of Nevada, Desert Research Institute  
Utah Cooperative Snow Surveys

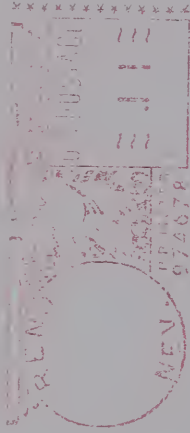
### PRIVATE

Amalgamated Sugar Company  
Kennecott Copper Corporation  
Nevada Irrigation District  
Owyhee Project North Board of Control  
Owyhee Project South Board of Control  
Pacific Gas and Electric Company  
Pershing County Water Conservation District  
Sierra Pacific Power Company  
Truckee - Carson Irrigation District  
Walker River Irrigation District  
Washoe County Water Conservancy District

Other organizations and individuals furnish valuable information for the snow survey reports. Their cooperation is gratefully acknowledged.

UNITED STATES DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE  
P.O. BOX 4850  
RENO, NEVADO 89505

OFFICIAL BUSINESS  
PENALTY FOR PRIVATE USE, \$300



BLK RT



## FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Furnishes the basic data  
necessary for forecasting  
water supply for irrigation,  
domestic and municipal water  
supply, hydro-electric power  
generation, navigation,  
mining and industry.

"The Conservation of Water begins  
with the Snow Survey"

DR. ALBERT RANGO, CHIEF  
HYDROLOGY LABORATORY  
ROOM 139, BUILDING 007  
USDA/ARS/BARC-WEST  
BELTSVILLE, MARYLAND 20705